PHENIX

Technical Support 2007

PHENIX
WEEKLY PLANNING

11/15/2007

Don Lynch

Run 8 Task Schedule

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Item	Start	Finish
RPC Tent preparation (see slides)	On Going	11/30
Start Flammable Gas	Done	Done
Install Gas house UPS's	11/15	11/21
Start d+Au collisions	11/22	11/22
Lab Holiday: Thanksgiving	11/22	11/22
Lab Holiday: Black Friday	11/23	11/23
Start of 5 person shifts	11/27	11/27
Next scheduled Maint. Day	11/28?	11/28?
Start of Physics (start biweekly maint. Access)	12/1	12/1
Start-of-run party	12/7	12/7
Install new UPS	~2/2	~2/9
Switch to p+p run	~2/2	~2/9
Complete new beampipe design	2/29	2/29
Install HBD West for test run	~4/1	~4/1
End of Run 8	5/27	5/27

Run 8 Prep Schedule (cont'd)

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Item	Start	Finish
Blue ring cold, start d- beam (Access during day, beam at night)	Done	Done
Lab Holiday: Veterans Day	11/12	11/12
Yellow ring cold, start Au beam (beam all day, little or no IR access)	11/12	11/12
Start Flammable Gas	11/8?	11/9
Start d+Au collisions	11/22	11/22
Lab Holiday: Thanksgiving	11/22	11/22
Lab Holiday: Black Friday	11/23	11/23
Start of 5 person shifts	11/27	11/27
Start of Physics (start biweekly maint. Access)	12/1	12/1
Start-of-run party	12/7	12/7
Install new UPS	~2/2	~2/9
Switch to p+p run	~2/2	~2/9
Install HBD West for test run	~4/1	~4/1
End of Run 8	5/27	5/27

CM Ladder/Stair Shutdown Access

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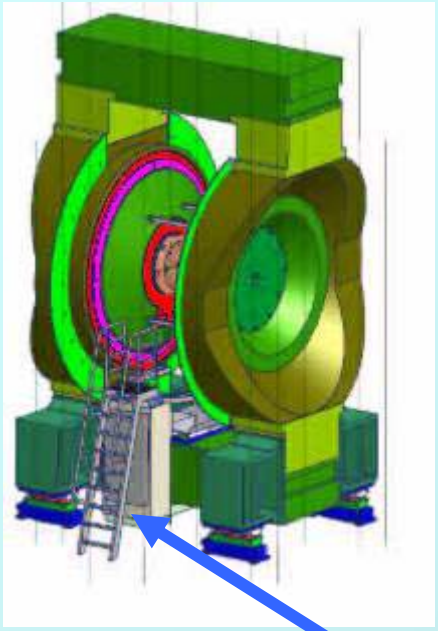

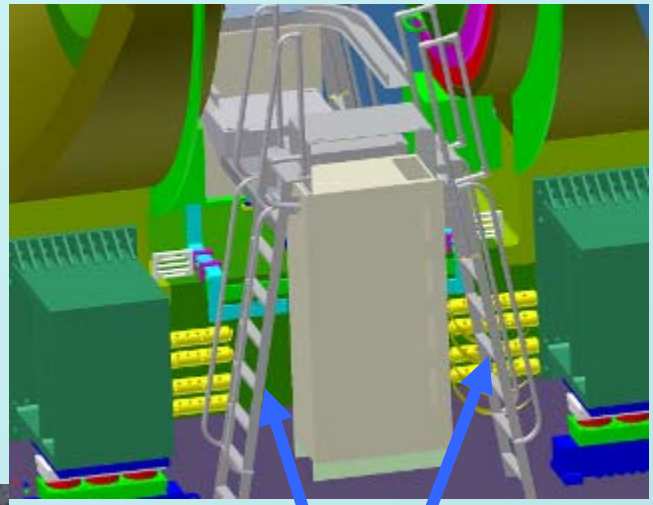

These ladders rec'd

RPC Factory

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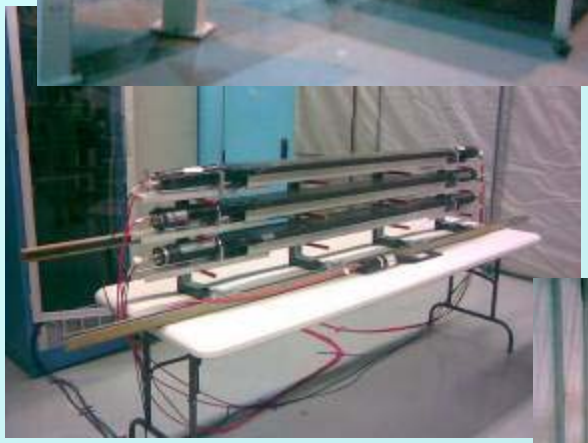

Electrical –Walkthru Done.
Gas System Procedure: approved;

RPC Factory Issues, cont.

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Equipment – Kenny working on Cosmic ray test stand. John working on piping. Shelving next. Young Jin providing specs and location. RPC group will provide specs for the gap transportation cart (vertical high and low lifting requirements, horizontal/ vertical orientation, table top dimensions, max load capabilities, etc.) PHENIX will design and fabricate. RPC group will provide specifications for gap and module storage racks. PHENX will design, fabricate and install.

Work plan – Gas procedure approved. Add to work plan book. As soon as safety system interlocks are installed, operational and "blue sheeted", prototype testing may begin. Production operations require work plan update to include factory gas operation and final assembly/test procedures.

Security –RPC group to review C-A policy (3 tier requirement as required by C-A procedure 1.20) RPC group will prepare a one page description of how they intend to comply with this requirement. This will be reviewed by C-A.

RPC Factory Issues, cont.

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Remaining Action Items from C-A safety review:

- Gas monitoring equipment to be calibrated and tested per BNL requirements – Equipment is manufacturer calibrated. Will be tested with mini "blue sheet" check out.
- Gas schematic/ procedure needed – Done
- Max flow rates incl. chambers in storage for all gases to be forwarded to M. van Essendelft – still needs to be done before factory startup
- Electronics to be approved installation and use (including NTRL equivalence approval) – Done.
- Any chemicals to be purchased through BNL to assure compliance – Will be complied with
- Adequate ventillation to be designed into tent – Done
- Approved security apparatus to protect against theft – see above

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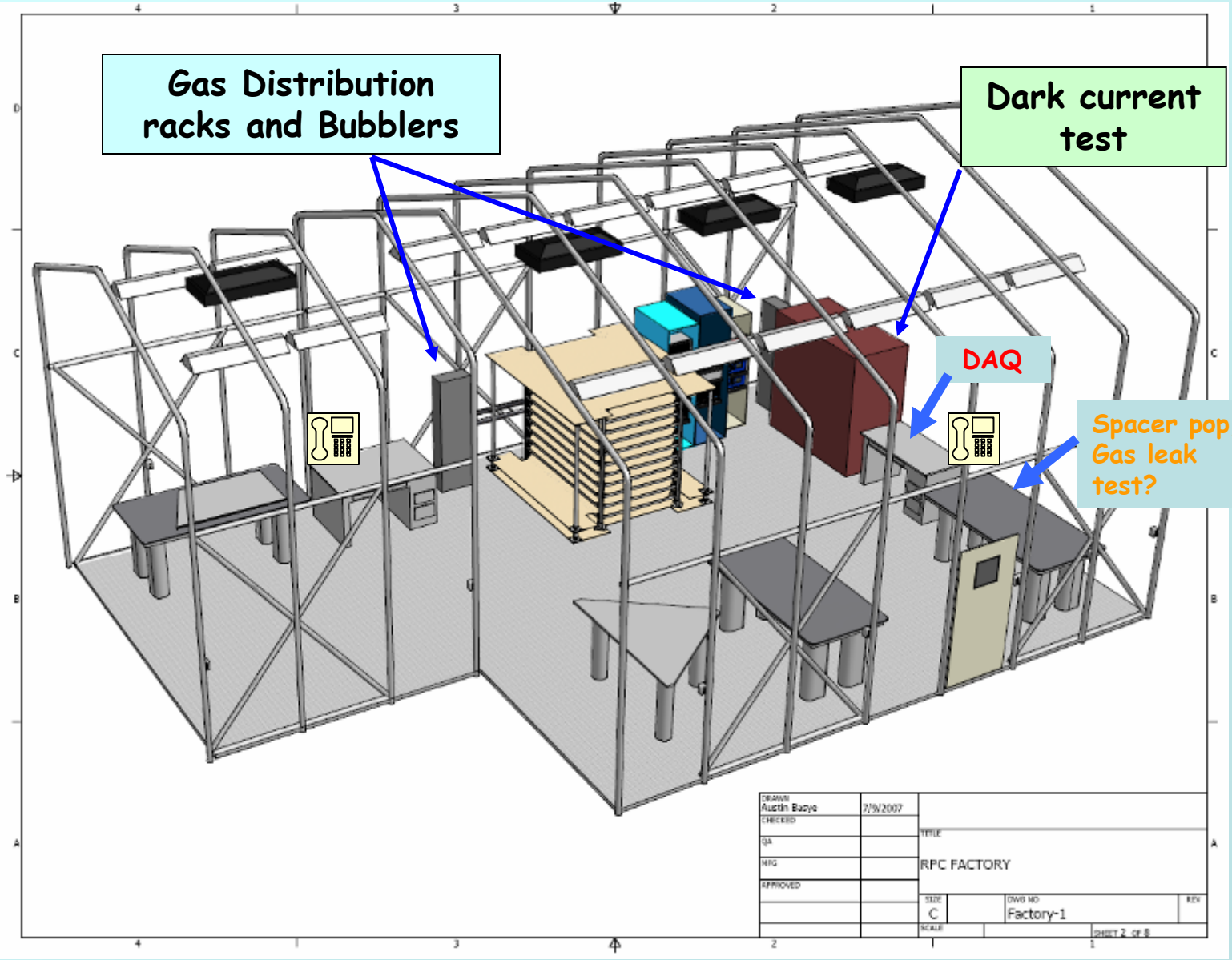

RPC & MuTrigger FEE Project Status

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Prototype C – RPC3-A module

- o mechanical detector module parts and signal plane at hand from CIAE
- o gaps expected from KODEL in early December

Prototype D – two full RPC 3 half octants

- o bakelite to arrive in Korea in late December
- o detector module parts to arrive at BNL in January
- o gaps to arrive at BNL in early March
- o half octants will be installed into PHENIX in the summer 2008

Arrival of GSU Prototypes (this week)

Arrival of prototype C gaps from KODEL 1st week of December
(mechanical detector parts + signal planes from CIAE at hand)

Arrival of detector parts + signal planes form CIAE in January
Arrival of prototype D gaps early 1st week of March 2008
➔all assembly and Q&A infrastructure in place

Arrival of mass produced gaps - June 2008
➔ all gap and module storage infrastructure in place

RPC & MuTrigger FEE Project Status

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Mu Trigger FEE Upgrade -

Estimate of the total power consumption for new FEEs

- Each board consumes power by 11.4W.

Station-2:

80 boards for North => 912 W
64 boards for South => 729.6W

Station-1: 40 boards => 456W

There are no plans yet for station 3 N&S

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Other Work

- Clean Out Container: Material is evaluated. Clean out and dispose by end of Nov.
- JTA review and update - in conjunction with performance appraisals
- Procedure review – pick up where we left off
- VTX/FVTX projects: beampipe upgrade project, prototype test support
- NCC – Richie supporting Eduoard design modifications
- New Crane: safety review to support acquisition and installation next summer

Safety, Security, Etc. :

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1. **Main Door to Counting House is a safety hazzard Needs immediate attention**
2. Lifting equipment needs annual inspection in November
3. Check your PHENIX awareness and Collider accelerator training

Station 1 , 2, 3 access plan

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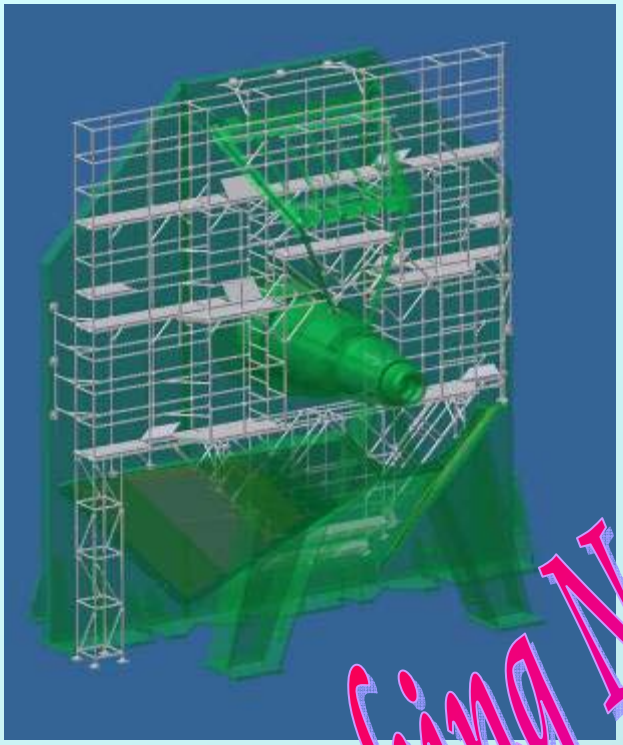
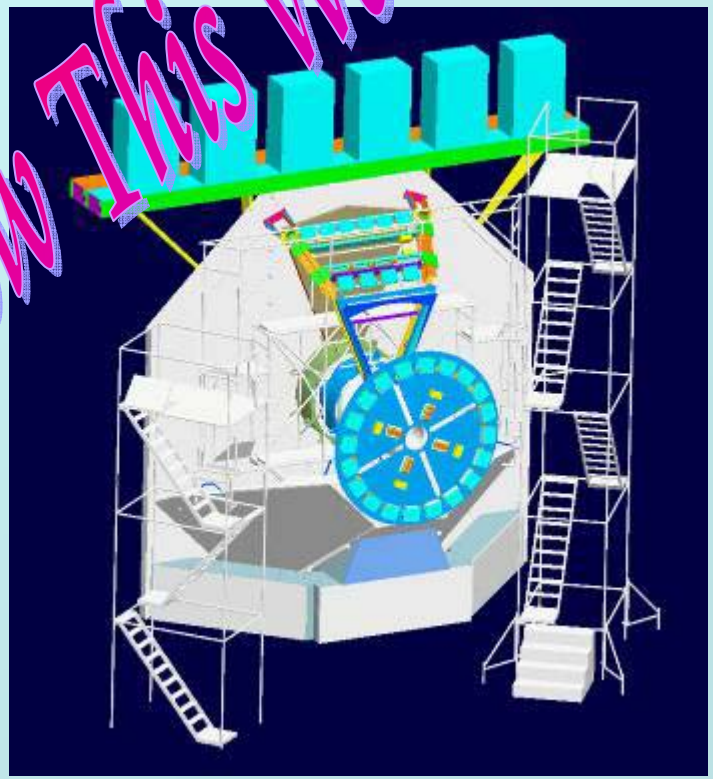


Work to begin on these items after prep for run 8 is finished

Nothing New This Week



5 Year Plan

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2008	Install stations 1& 2 of MuTr FEE upgrades (south), 1 octant Cu absorber (south), 2 half otants RPC2/3 S, infrastructure upgrades & repairs, misc. subsystem work, MMS south scaffolding
2009	Scaffolding in MMN, MuTr FEE N stn. 1,2 & 3, MuTr N&S stn. 1,2 & 3 repairs, RPC2 N, RPC3 N, north Cu absorbers, infrastructure upgrades & repairs, misc. subsystem work
2010	Remove HBD & RXNP, remove beampipe, DC West upgrade, VTX barrel, south Cu absorber completed, MuTr FEE stn. 3 S, MuTr stn. 1, 2 & 3 S repairs, infrastructure upgrades & repairs, misc. subsystem work
2011	RPC1 N&S, NCC S, FVTX, infrastructure upgrades & repairs, misc. subsystem work, remove south absorber
2012	NCC N, upgrades contingency & wishlist, infrastructure upgrades & repairs, misc. subsystem work, remove north absorber

** Years refer to the shutdown year and follow the run with the similar number (i.e. work in 2008 is to be done in the shutdown that follows run 8, and so on)*

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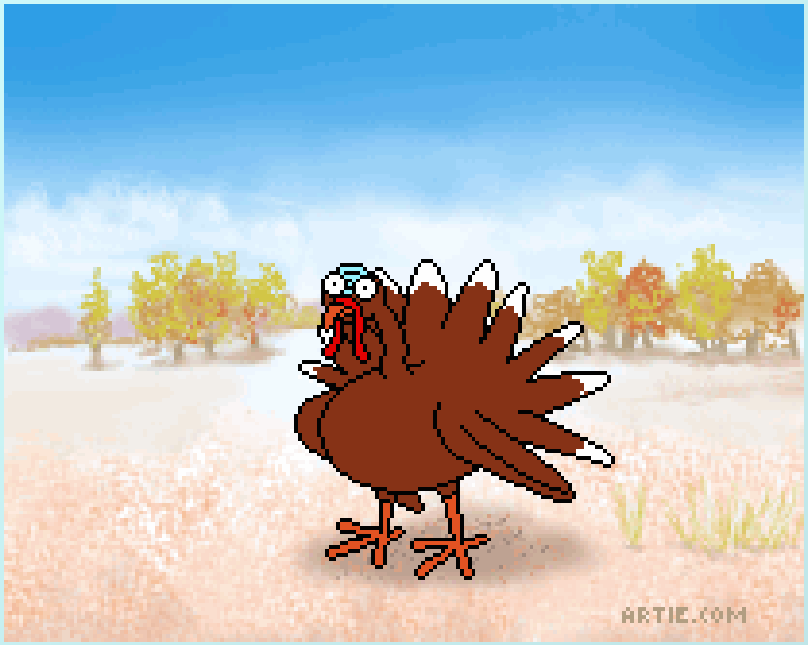
Where To Find PHENIX Technical Info



Links for the weekly planning meeting slides, long term planning, pictures, videos and other technical info can be found on the web site:

http://www.phenix.bnl.gov/WWW/INTEGRATION/ME&Integration/DRL_SSint-page.htm